

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Yasuda, et al.
Filed.: Filed Concurrently Herewith
Title of Invention: END-CAPPED POLYFLUORENES, FILMS AND
DEVICES BASED THEREON

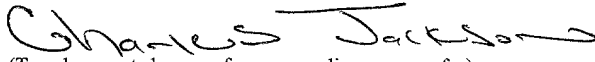
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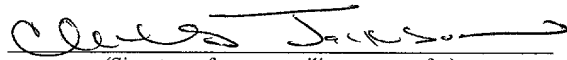
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PRELIMINARY AMENDMENT

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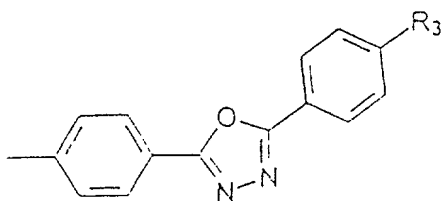
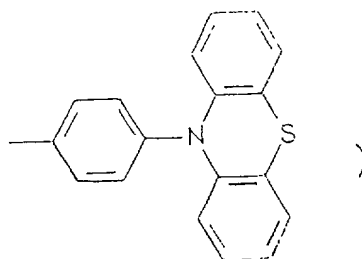
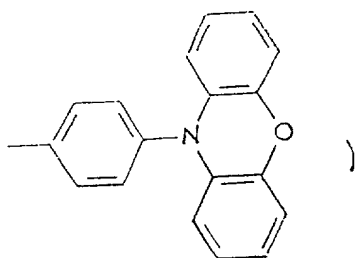
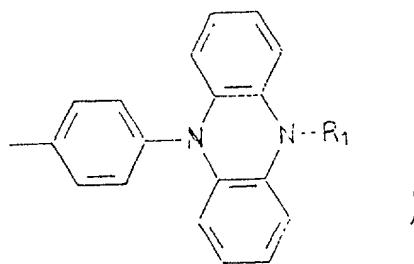
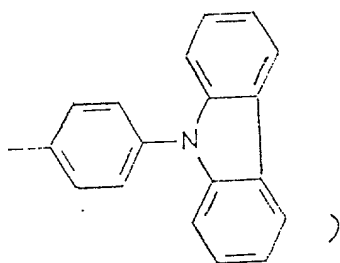
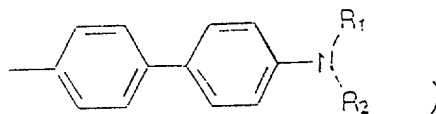
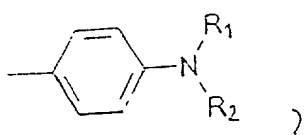
Sir:

Before the issuance of the first Office Action, please amend the above-identified application as follows:

IN THE CLAIMS:

Please amend claims 3, 9, 10, 12, 14, 16, 18, 20, 21, 22, 25, 26, 28, 29 and 30 as follows:

3. (Amended) A polyfluorene according claim 1, wherein the charge-transporting moiety is selected from the group comprising :



9. (Amended) A polyfluorene according to claim 7 cross-linked to a polyfluorene according to claim 7 via at least one linkage selected from the group comprising a 9,9-spirobifluorene-linkage, a bifluorenyl-linkage, a bifluorenylidene-linkage and an α,ω -difluorenylalkane-linkage with a length of the alkane spacer in the range from 1 – 20 C-atoms.

10. (Amended) A polyfluorene according to claim 7 which has at least one color-tuning moiety incorporated into the main chain.

12. (Amended) A polyfluorene according to claim 7, which is liquid-crystalline.

14. (Amended) A polyfluorene according to claim 7, which is amorphous.

16. (Amended) A film incorporating a polyfluorene according to claim 15.

18. (Amended) A film according to claim 16, incorporating at least one other substance.

20. (Amended) A film according to claim 16, deposited on an alignment layer.

21. (Amended) A film according to claim 16 having a thickness ranging from 10 nm to 2 μm .

22. (Amended) A device selected from the group comprising FETs, photovoltaic elements, LEDs and sensors, incorporating a polyfluorene according to claim 16.

25. (Amended) A device selected from the group comprising FETs, photovoltaic elements, LEDs and sensors, incorporating a film according to claim 16.

26. (Amended) Use of a polyfluorene according to claim 1 in a film.

28. (Amended) Use of a polyfluorene according to claim 1 in a device selected from the group comprising FETs, photovoltaic elements, LEDs and sensors.

29. (Amended) Use of a film according to claim 16 in a device selected from the group comprising FETs, photovoltaic elements, LEDs, and sensors.

30. (Amended) Use of a device according to claim 22 in combination with a liquid-crystal display (LCD).

REMARKS

Claims 3, 9, 10, 12, 14, 16, 18, 20, 21, 22, 25, 26, 28, 29 and 30 have been amended to eliminate multiple dependencies. Attached hereto is a marked up version of the changes made by the current amendment. The attached page is captioned "**Version with markings to show changes made.**" The filing fee has been calculated based upon this amendment to the claim.

Respectfully submitted,

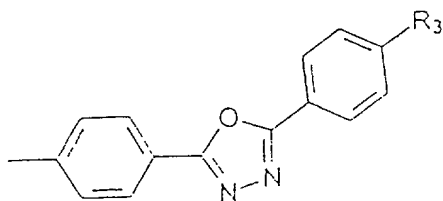
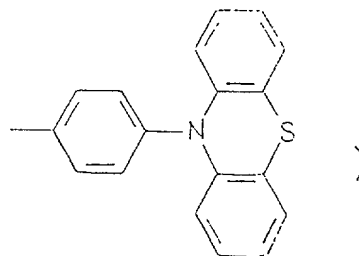
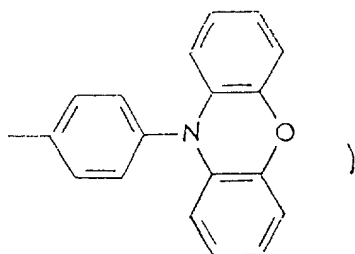
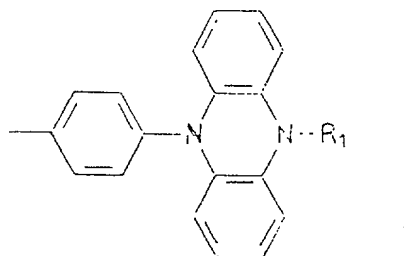
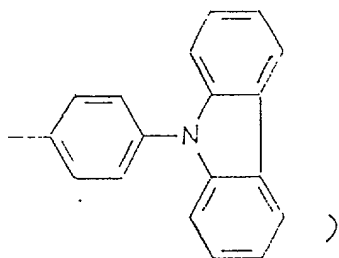
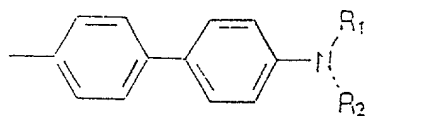
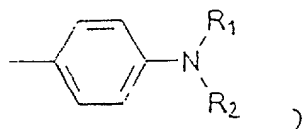
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VERSION WITH MARKINGS TO SHOW CHANGES MADE

Claims 3, 9, 10, 12, 14, 16, 18, 20, 21, 22, 25, 26, 28, 29 and 30 has been amended as follows:

3. (Amended) A polyfluorene according to [any of claims 1 - 2] claim 1, wherein the charge-transporting moiety is selected from the group comprising :



9. (Amended) A polyfluorene according to [any of the foregoing claims] claim 7 cross-linked to a polyfluorene according to [any of the foregoing claims] claim 7 via at least one linkage selected from the group comprising a 9,9-spirobifluorene-linkage, a bifluorenyl-linkage, a bifluorenylidene-linkage and an ., -difluorenylalkane-linkage with a length of the alkane spacer in the range from 1 – 20 C-atoms.

10. (Amended) A polyfluorene according to [any of the foregoing claims] claim 7 which has at least one color-tuning moiety incorporated into the main chain.

12. (Amended) A polyfluorene according to [any of the foregoing claims] claim 7, which is liquid-crystalline.

14. (Amended) A polyfluorene according to [any of claims 1 – 11] claim 7, which is amorphous.

16. (Amended) A film incorporating a polyfluorene according to [any of the foregoing claims] claim 15.

18. (Amended) A film according to [any of claims 16 – 17] claim 16, incorporating at least one other substance.

20. (Amended) A film according to [any of the claims 16 – 19] claim 16, deposited on an alignment layer.

21. (Amended) A film according to [any of the claims 16 – 20] claim 16 having a thickness ranging from 10 nm to 2 μ m.

22. (Amended) A device selected from the group comprising FETs, photovoltaic elements, LEDs and sensors, incorporating a polyfluorene according to [any of claims 1 – 15] claim 16.

25. (Amended) A device selected from the group comprising FETs, photovoltaic elements, LEDs and sensors, incorporating a film according to [any of claims 16 – 21] claim 16.

26. (Amended) Use of a polyfluorene according to [any of claims 1 – 15] claim 1 in a film.

28. (Amended) Use of a polyfluorene according to [any of claims 1 – 15] claim 1 in a device selected from the group comprising FETs, photovoltaic elements, LEDs and sensors.

29. (Amended) Use of a film according to [any of claims 16 – 21] claim 16 in a device selected from the group comprising FETs, photovoltaic elements, LEDs, and sensors.

30. (Amended) Use of a device according to [any of claims 22 – 25] claim 22 in combination with a liquid-crystal display (LCD).